MICRONOVA Software and Systems

NovaCarts CAN Multi I/O Module

This top-hat rail module is a measuring and control board for versatile deployment. Four configurable PWM output ports can be used, for example, to control motor or sensor simulations. In addition, two analog ports can also output voltages of up to 20 V with 16-bit resolution.

A total of eight digital and four analog input ports with optical isolation are available. All input ports are protected against electrostatic discharge (ESD), and all output ports are resistant to short-circuit. Connection to the system is effected via a CAN interface (high-speed CAN) with addressing configured by rotary switch. Furthermore, the module's software permits calibration and a self-test. The top-hat rail module comes with push-in plug connectors, allowing it to be wired up easily without any tool required. Two plug connectors for CAN interfaces offer the possibility of cascading, as well.



ks.MicroNova GmbH - Amalie-Wündisch-Str. 4 - D-34131 Kassel Phone: +49 561 816198-0 Fax: +49 561 816198-199 E-Mail: sales-testing@micronova.de **MicroNova AG** - Unterfeldring 6 - D-85256 Vierkirchen Phone: +49 8139 9300-0 Fax: +49 8139 9300-80 E-Mail: sales-testing@micronova.de

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Data Sheet

Module name: NC-GMM3010 Data sheet version: 1V1

Features

Analog input ports	4	
Digital input ports	8	
Analog output ports	2	
PWM output ports	4	
Power supply	7 - 28 V	
Operating temperature	0 to +55 °C	
Storage temperature	-20 to +70 °C	
Humidity	10 % to 90 % (no condensation)	
Dimensions	155 mm x 71.8 mm	
Housing	Phoenix UMK-BE series – total width: 147 mm	
Connection to RT system	CAN	

Specifications

Analog Output	
Number of channels	2
Output voltage	0 – 20 V
Accuracy	+/- 1 %
Resolution	16 bit
Output current	10 mA
PWM Output	
Number of channels	4
Number of channels Output voltage	4 Internal or external power supply
Number of channels Output voltage Operating modes	4 Internal or external power supply Push-pull, open collector
Number of channels Output voltage Operating modes Output current	4 Internal or external power supply Push-pull, open collector 500 mA
Number of channels Output voltage Operating modes Output current Frequency	4 Internal or external power supply Push-pull, open collector 500 mA 20 Hz – 20 kHz

Digital Input	
Number of channels	8
Input voltage	0 - 24 V
Galvanic Isolation	Channel to channel Channel to system
Analog Input	
Number of channels	4
Input voltage	0 - 24 V
Sampling rate	100 Hz
Resolution	16 bit
Galvanic Isolation	Channel to system

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